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PORT

STAT

COUNTRY

USSR

Scientific research

SUBJECT HOW PUBLISHED

Periodicals

WHERE PUBLISHED

HED USER

DATE PUBLISHED

LANGUAGE

1945 - 1947

Russian

JAN 7 1955 WW FOR OFFICIAL USE ONLY

CD NO.

DATE OF INFORMATION

1945 - 1947

DATE DIST. 5 January 1949

0 05 04050

NO. OF PAGES

SUPPLEMENT TO REPORT NO.

THE DESCRIPTION DEPOCRATION APPECTATION THE RATIONAL DEPOCRATION TO THE RATIONAL DEPOCRATION OF THE PROBLEM PRODUCTION OF THE PORT OF O

THIS IS UNEVALUATED INFORMATION

SOURCE Documentary as indicated. (Information requested.)

RECENTLY PUBLISHED RESEARCH OF THE LENINGRAD PHARMACEUTICAL RESEARCH INSTITUTE

"Alkalimetric Determination of Sulfapyridine," N. V. Khromov-Borisov, Leningrad Phar Res Inst

"Farmatsiya" Vol 8, No 6, 1945, pp 31-3

Sulfapyridine is hydrolyzed 30 minutes in 25% aqueous ECl by boiling under a reflux. The system is then evaporated to dryness in the same flask on a water bath. The residue (sulfanilio acid and ∞ -aminopyridine-ECl) is taken up in hot water and titrated with 0.1 N alkeli against phenolphthalein to a pink color. This mothod eliminates the need for titrating in as tone. Accuracy is indicated by five determinations on sample; the avarage result was 99.5% (range 99.3-9.7%).

"Colorimetric Determination of Ipecac Root in Small Quantities," Yu. W. Rozenblyum, Leningrad Phar Res

"Farmatsiya" Vol 8, No 2, 1945, pp 21-5

Emetine can be assayed in ipecac root (I) by its reaction with diszotized sulfanilize acid to form an azo dye. The method can be adapted to determination of small amounts of I in dry preparations from other roots. The colorimetric standard is derived from powdered I of known exetine content.

"Gascmetric Method for the Determination of Sulfamides," N. V. Khromov-Borisov, Leningrad Phar Res Inst

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"Zhur Priklad Khimii" Vol 18, 1945, pp 612-23

Sulfonamides react with HNO₂ in concentrated H₂SO₄ at room temperature to yield N₂O quantitatively; acylated sulfonamides react similarly, the first reaction consists of the cleavage of the scyl group. N-aryl-substituted sulfonamides fail to yield N₂O under these conditions. The accuracy of a guschet fic method based on the formation of N₂O was checked on 27 various sulfonamides. The preparation of the following sulfonamides is given as new compounds. Phthalanil (56 g) was added to 150 g ClSO₂H and the mixture was heated to 70° for 1 hour; after pouring into water there was obtained a paste of phthalanilsulfonyl chloride containing 26.4% of the chloride. 134.1 g of the paste, 17.2 g sulfamilamide, 7.8 g Ma₂CO₃ in 32 cc water, and 170 cc saturated solution of NaCl gave 60-5° 85% phthaloyldisulfamilamide (1) m 282-4° (from formic acid).

Sulfanilemide (0.7 g) and 0.6 g p-dimethylamino-benzaldehyde were heated to 210-20° for 20 minutes to yield the corresponding Nth (p-dimethylamino-benzylidene) sulfanilamide, m 192-4° (from EtoH); the EG1 salt was obtained by conducting the reaction in aqueous EG1, m 243° (with decomposition). p-Chloro-benzenesulfonamide (10 g) heated to 160° with 16 g BzG1 for 10-15 minutes, then to 200°, gave 14.3 g BzG1 for 10-15 minutes, then to 200°, gave 14.3 g BzG1 for 10-15 minutes, then to 200°, gave 14.3 g Grome 55 formic acid). The product on treatment with EG0; in R.80_k gave R₂0 and 3-nitro-k-chlorobenzenesulfonic acid K salt, m 325-6° (decomposition, from water).

"Phytosterol as n Cintment Base," A. M. Khaletskiy, L. H. Fedorova, Leningrad Phar Res Inst

"Farmataiya" Vol 8, No 2, 1945, pp 18-21

A homogeneous cintment base was prepared from 12-15% pine phytosterol and 85-8% water. It did not separate in 30 days at 20°. The paste can be dried and regenerated with ware water. It appears satisfactory as a base for ZnO, ichthyol, or mercurial cintments.



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"Determination of Sulfapyridine as the Silver Salt,"
N. V. Khromov-Borisov, I. M. Yurist, L. P. Popova,
Leningrad Phar Res Inst

"Farmatsiya" Vol 9, No 1, 1946, pp 26-8

Argentometric determination of sulfapyridine can be carried out gravimetrically or by the Volhard titration. For the former, add about 0.4-g sample to a little less than the equivalent quantity of 0.1 N MaOH and add 50 ml water. Heat to 70° until dissolved, add 25 ml 0.1 N AgNO₂, cool, filter through fritted glass (No 3), wash free from Agt and then with 300 cc water, and dry at (103°. For the Volhard determination (0.3-g sample), heat again nearly to boiling after precipitating the Ag salt; wash with 5% HNO₂, then with water until neutral, then with hot water until free from Agt and titrate the excess Egt.

"Preparing Standard Dry Extracts of Thermopsis," A. M. Engletskii, L. N. Fedorova, Lemingrad Phar Res Inst

"Farmatsiya" Vol 9, No 5, 1946, pp 32-4

Dry extract of Thermopsis contained 2.85-3.98% alkaloid. For preparation of a standard extract and a nonhygroscopic powder, the Thermopsis was blended with lactose to 0.414% alkaloid (analysis of Thermopsis plants showed 0.42%). This dry extract keeps well in closed vessels, but absorbs moisture if exposed to air. When properly stored, it is stable for 6 months or longer.

"Argentometric Determination of Sulfa Drugs: I. Determination of Sulfidine and Sulfazole," Ya. A. Perel'man, V. I. Kozlova, Leningrad Phar Res Inst

"Farmatsiya" Vol 10, No 1, 1947, pp 22-6

Test titrations of sulfidine and sulfatole with AgRO₂ against excess K₂CrO₁ were accurate within 1%. In the presence of Cl the titrated solution is acidified with ENO₂, shaken, filtered, and titrated with AgRCW in the presence of Fe₂ (SO₁)₂. (MR₁)₂ SO₁, 24E₂O. This titration is accurate enough for routine analysis. (20 references)

"An Investigation of the Phytosterol Ottained by Alkaline Rydrolysia of Pinewood Lignin." A.M. Mhaletskiy, N.M. Solomonik, Leningrad Chem-Phar Res Inst

"Zhur Obshon Khimii" Vol 17, 1947, pp 1171-84

Crude phytosterol (I) from pinewood was extracted with ether and the portion solvent in ether (69%) was separated by fractional crystallization from first into a mixture of alcohols of high molecular weight (II), m 65-75° (30 % of I) and a mixture of



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sterols (III), m 118-37% (38.4% of I). Three optically inactive aliphatic alcohols were isolated by fractional orystallization of II from ether, EtoE, and Mo₂CO: lignoceryl alcohol, m 75-7°, 17% of I, oridized by CrO₂ in AcOH to lignoceric acid, m 82-3°; C₂₂E₁₀CH₂OH, m 70.5-1.5°; acetate, m 51-3°; benzoate, m 45-50°; oridized to C₂₂E₁₀CO₂H, m 75-76.6° (Fb salt, m 115-16°); C₂₃E₁₀CH₂OH, m 69-70.2°; acetate, m 53-3.8°; benzoate, m 50-3°; oridized to C₂₂E₁₁CO₂H, n 72.5-3.5° (Fb salt, m 11k-15.5°). III was 70% \$-sitosterol, m 135-5.5°, [G₁₀-36° (in CHO1₃), isolated and purified via the benzoate. III also contained unidentified sterols and a trace of sitostanol (dihydrositosterol). Stigmaterol and α_1 -, α_2 -, α_3 -and γ -sitosterol was absent. The portion of I insolvent in other (27%) was largely a mixture of metallic salts of lignoceric and other acids.

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